

Part One

New applications for ACVIM Residency Training Programs must be received by the Residency Training Committee (RTC) 90 days prior to any residents beginning training. Before completing this form, please review the general and specific requirements for Cardiology Residency Training Programs in the ACVIM Certification Manual (CM). The current version of the CM is available on the ACVIM website at www.ACVIM.org.

Prior to making significant changes in a residency training program, approval of the ACVIM and Cardiology RTC must be obtained. The Candidate and/or Program Director must notify ACVIM, in writing before the changes are made to ensure that the proposed changes are approved. Significant changes could include, but are not limited to the following: changes in Program Director or advisors, transferring from one program to another, alterations in program duration, locations of secondary site training, switching to a 'dual board' program or enrolling in an institutional graduate program.

Notice: The data collected in this form is necessary both for the ACVIM to maintain its accreditation as a Registered Veterinary Specialty Organization and also is required for renewal of the residency training program. Some of the data collected is required of every specialty and some is specific to the specialty of Cardiology.

For multi-site residency programs: To ensure uniformity of training and compliance with current CM requirements, training programs that include multiple sites must provide detailed information regarding supervision and facilities available at each specific site(s). Multi-site programs, if any, will be addressed by the Program Director in Part Two.

Program Director Name:

Must be an active Diplomate of ACVIM in the Specialty of Cardiology or an approved ECVIM Diplomate in Cardiology

Program Director's Contact Information:

Work Phone:	<input type="text" value="(519) 824-4120"/>
Mobile Phone:	<input type="text"/>
E-mail:	<input type="text" value="sfonfara@uoguelph.ca"/>
Mailing Address:	<input type="text" value="50 Stone Rd
Department of Clinical Studies, University of Guelph
Guelph, ON N1G 2W1
Canada"/>

1. Location of Sponsoring Institution (Primary Site of Residency Training Program):

Primary Site Location:	Length of Training Program:
<input type="text" value="Ontario Veterinary College"/>	<input type="text" value="4 year"/>

2. Resident Advisor(s): Must be a Diplomate of ACVIM in the Specialty of Cardiology or an approved ECVIM Diplomate in Cardiology. There is no restriction on the number of Resident Advisors; however, each Resident Advisor can supervise up to two residents concurrently.

3. Supervising Diplomate(s) on-site: Must be an active Diplomate of ACVIM in the Specialty of Cardiology or an approved ECVIM Diplomate in Cardiology.

4. Diplomates of ACVIM responsible for supervision of clinical training who specialize in areas other than Cardiology. If off-site, please explain the situation, and the method of providing direct contact with the resident.

Name and Specialty	Comments
Fiona James - Neurology Anthony Mutsaers - Oncology Sam Hocker - Oncology Anthony Abrams-Ogg - SAIM Maureen Barry - SAIM Alice Defarges - SAIM Shauna Blois - SAIM Roman Husnik - SAIM J. Paul Woods - SAIM & Oncology Danielle Richardson - SAIM & Oncology	

5. Residents currently participating in your training program, along with the beginning date of the program, expected ending date of the program, and designated resident advisor. All current residents and incoming residents (if known) should be listed here. Unless specifically approved, in advance, by the CRTC, the ratio of cardiology residents to on-site Cardiology Diplomates who are actively involved in resident training cannot exceed 2 to 1.

Resident Name	Start date (mm/dd/yyyy)	End Date (mm/dd/yyyy)	Resident Advisor Name*
TBD 10.1.19 - 9.30.23 (Sonja Fonfara)			



American College of **Veterinary** Internal Medicine

RESIDENCY TRAINING PROGRAM REGISTRATION
2019-2020
CARDIOLOGY

Part Two

Part Two of the Cardiology Residency Training Program addresses general features that apply to all current residents. These questions will be used to provide the Residency Training and Credentials Committees with information needed to judge the structure, quality, scope, and consistency of training provided. (Part Three must be completed and submitted for each resident.)

Current Date:

Program Director Name:

(Must be a Diplomate of ACVIM in the Specialty of Cardiology or an approved ECVIM Diplomate in Cardiology)

Name of Sponsoring Institution (Residency Training Program):

1. Please list **all Diplomates of the American College of Veterinary Pathology and the European College of Veterinary Pathology** in the areas of clinical pathology or gross/histopathology associated with residency training. If off-site, please explain the situation, and the method of providing direct contact with the resident.

Name of Diplomate(s)	Clinical or Gross	ACVP or ECVP	Comments
Dres. Patrick Boerlin, Janet Beeler-Marfisi, Dorothee Bienzle, Darren Wood, Scott Weese,	Clinical	ACVP (all)	
Dres. Jeff Caswell, Rob Foster, Brandon Lillie, Brandon Plattner, Geoffrey Wood	Gross	ACVP (all)	

2. Please list **all Diplomates of the American College of Veterinary Radiology and European College of Veterinary Diagnostic Imaging** associated with residency training. If off-site, please explain the situation, and the arrangements for direct contact with the resident.

Name of Diplomate(s)	ACVR or ECVDI	Comments
Dr. Stephanie Nykamp	ACVR	
Dr. Alex zur Linden	ACVR	

3. Please list **all Diplomates of the American College or equivalent European colleges of Dermatology, Surgery, Ophthalmology, Anesthesiology, ECC, clinical nutrition, clinical pharmacology, and/or theriogenology** associated with residency training. . If off-site, please explain the situation and the arrangements provided for contact with the resident.

Name of Diplomate(s)	Specialty	Comments
Dres. Shane Bateman, Alexa Bersans	ECC	
Dres. Brigitte Brisson, Thomas Gibson, Noel	Surgery	

Moens, Michelle Oblak, Ameet Singh		
Dr. Chantale Pinard	Ophthalmology	
Dres. Carolyn Kerr, Melissa Sinclair, Andrea Sanchez, Alex Vandeverde	Anesthesiology	
Dres. Sarah Abood, Adronie Verbrugghe Dr John Ronson Dr Cathy Gartley	Clinical nutrition Clinical Pharmacology Theriogenology	

4. Please indicate the availability of the following facilities or equipment. Indicate if these are available on-site at the primary training site, or at a different location. (In the Location column, indicate on-site for primary location or the name of the facility where the equipment is located if off-site.) For facilities that are not on-site, please describe the situation and availability in the space at the end of this section. See CM 5.D for details.

	Available?		Location of equipment? (On-site or list site name)
	Yes	No	
a) Blood pressure equipment (must be on site)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b) Cardiac catheterization capability (must be on-site)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c) Echocardiography equipment (must be on-site)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d) Fluoroscopy (must be on site)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e) Pacemaker interrogation (must be on site or available off-site)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f) Standard radiological equipment (must be on-site)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g) Electrocardiography (must be on-site)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
hi) Brainstem Auditory Evoked Response Equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
i) Clinical Pathology capabilities: (includes CBC, serum chemistries, blood gases, urinalysis, cytology, parasitology, microbiology, endocrinology, anatomic and histopathology)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
j) Colloid oncotic pressure measurement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
k) Computed Tomography	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
l) Electroencephalography	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
m) Electromyography	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
n) Endoscopy equipment			
GI equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Bronchoscopy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Cystoscopy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Rhinoscopy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Laparoscopy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
o) Hemodialysis capability	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
p) Intensive Care Facility – 24 hours	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
q) Magnetic Resonance Imaging	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
r) Nuclear Medicine [access is desirable]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
s) Radiation Therapy Facility	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
t) Serum osmolality measurement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
u) Total parenteral nutrition capability	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
v) Ultra sonographic equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
w) Urethral pressure profile & cystometry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
x) Computerized Medical Records w/Searching Capabilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
y) Medical Library w/Literature Searching Capabilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	additional access to a medical library is available at McMaster

		University (45 min drive)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	

z) Veterinary Library w/Literature Searching Capabilities

If any of the above equipment or facilities are available off-site, please explain how the resident can access them for case management, research, or study.

The closest medical school with a medical library is McMaster University which is a 45 min drive from the U of Guelph. Note, however, that much can be accessed online or through our library's interlibrary loan service. The University of Guelph library has online access to an extensive list of journals, including most medical journals.

5. Clinical caseload information (this information should reflect the caseload of the prior 12 months at the primary site)

Total Cardiology caseload per year:

1400-1500 (echocardiographic examinations: 750-850 [could not add the number in the according field below])
720-30

6.

Number of echocardiographic examinations per year:

Number of cardiac catheterizations per year:

Didactic Learning Opportunities and Research Requirements: In recognition of the importance of scientific discovery as a critical mission of the ACVIM, all Residency Training Programs shall include an assessment period or instruction and/or participation in creative scholarship which will foster an appreciation of, competency in, and contribution to the knowledge base of their respective specialty and which will support their development as clinician scientists. This requirement is fulfilled through satisfactory completion of A, B and one of C [See CM 5.E and 5.F]:

A. Journal Club: Critical review of literature, minimum of eighty (80) hours during the program. Describe how this requirement is met or exceeded.

Weekly cardiology journal club is held where 1-2 papers in the current veterinary or human cardiology literature are discussed : 1 hr/week for average of 44 weeks/year = 176 hours over 4-year program. Supplementing this is periodic participation in weekly Internal Medicine journal club, particularly in the time leading up to the General Exam.

B. Cardiology-focused Educational Experiences: Minimum of one hundred fifty (150) hours during the program. Describe how this requirement is met or exceeded. [See CM 5.E.2]

Cardiology-focused educational experiences will be met with weekly ECG rounds, weekly textbook chapter review sessions or topic-driven investigations (referred to as Readings in Cardiology), and formal graduate coursework in cardiology topics, statistics, or related physiology/pathophysiology such as renal and respiratory (minimum of 5 one-semester courses for DVSc degree).

A typical weekly schedule would include the following dedicated time to structured educational experiences:

Monday:	8:00 - 9:00	Readings in Cardiology or formal course
Tuesday:	8:00 - 9:00	ECG rounds
Wednesday:	8:00 - 9:00	Grand Rounds - College wide Resident and Intern presentations
Thursday:	8:00 - 9:00	Readings in Cardiology or formal course
Friday:	8:00 - 9:00	Journal Club

In the above, 3 hours/week could qualify as eligible experiences (over and above journal club since counted separately and excluding grand rounds). If this is maintained for an average of 44 weeks/year = 528 hours over 4-year program

C. Successful completion of any one of the options listed below. Describe how this will be fulfilled or exceeded in the individual trainee's specific application.

1. Successful completion of at least two (2) of the following three (3) short courses/workshops offered by ACVIM either on-line or at the Forum:
 - A. Critical evaluation of veterinary medical/biomedical literature
 - B. Grant Writing
 - C. Study, design and participation in clinical trials

2. Documented submission of a grant proposal (by advisor letter)
3. Acceptance and presentation at a scientific meeting of an abstract (oral or poster) of original work
4. Documented completion (by advisor letter) of a prospective or retrospective research program pertinent to the candidate's specialty
5. Documented completion (by advisor letter) of graduate course work in biostatistics, research methods, and/or research ethics.

The University of Guelph residency program includes a graduate degree, the DVSc (Doctorate of Veterinary Science), with up to 12 months of the program devoted to research activities. Candidates are required to carry out a prospective research project, involving writing a proposal (including a grant proposal if applicable), carrying out the data collection and analysis, writing a thesis, and defending the thesis in a formal examination process with an external examiner. Presentation of research at the ACVIM or ECVIM forum and publication are encouraged. The DVSc program also requires university graduate coursework (5 one-semester courses), of which at least one course must be a statistics course. Therefore items 4 and 5 (and for individual projects item 2) will occur as a result of the DVSc program, and item 3 is encouraged.

Note: Letters of documentation by advisors will need to accompany the final submission of the Resident Logs to the Residency Training Committee in order to qualify for a resident certificate.

Please note, any Program Director or Candidate that significantly changes or alters this Residency Training Program before completion must notify ACVIM, in writing, before the changes are made to ensure that the proposed changes are approved.

Significant changes could include, but are not limited to:

- transferring from one program to another
- alterations in program duration
- switching to a 'dual board' program
- enrolling in an institutional graduate program
- change of Program Director or Resident Advisor

As Program Director, I verify that I have read the Certification Manual and that the above information is an accurate reflection of this Residency Training Program.